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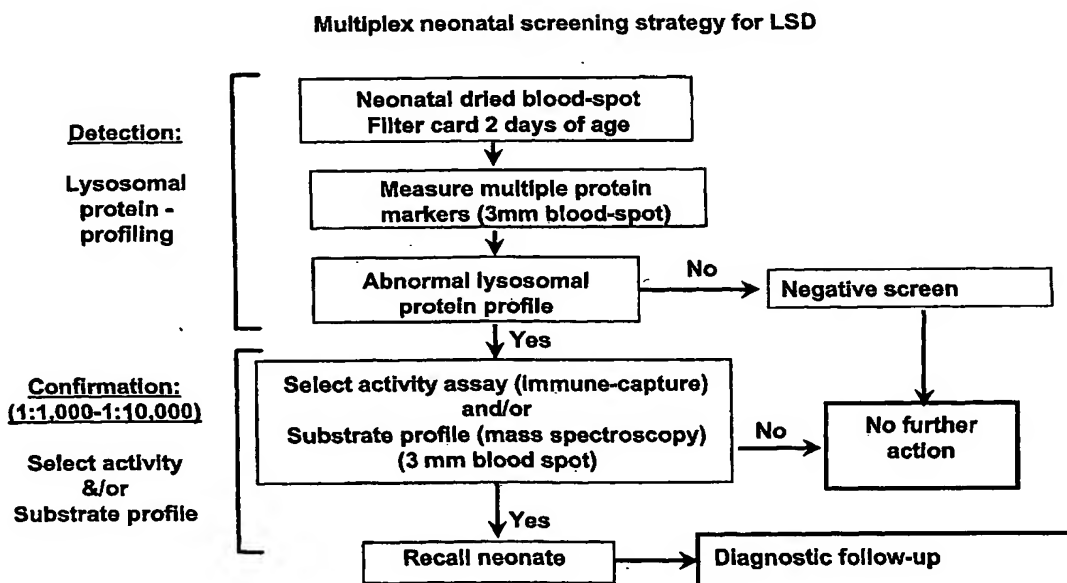
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(54) Title: MULTIPLEX SCREENING FOR LYSOSOMAL STORAGE DISORDERS (LSDs)



(57) Abstract: A novel protein profiling method of testing for Lysosomal Storage Diseases ("LSD") using discovered normalized lysosomal fingerprint patterns. The fingerprint patterns reveal the health of lysosomal organelles, specific LSD, and clinical severity. Multiplexing bead technology for simultaneous screening of multiple LSD and normalizing measured enzyme activity or protein levels against other lysosomal proteins, enzymes, or enzyme activities. Compounds, reagents, and methods for identifying and quantifying multiple target enzymes and proteins.

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